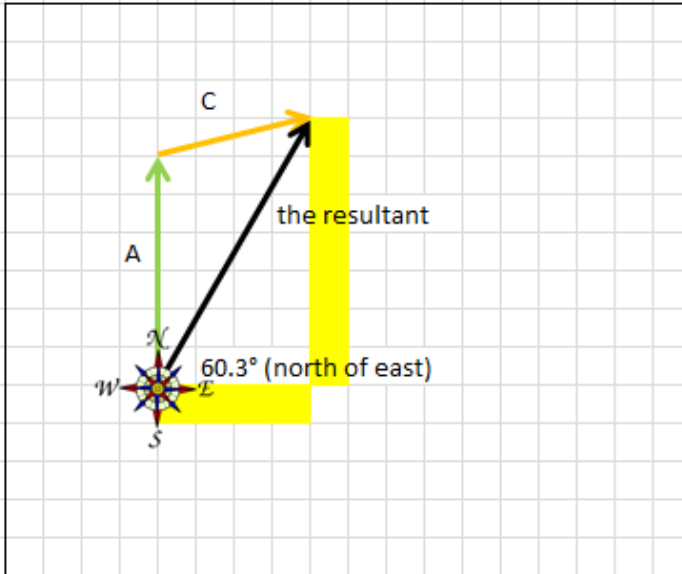


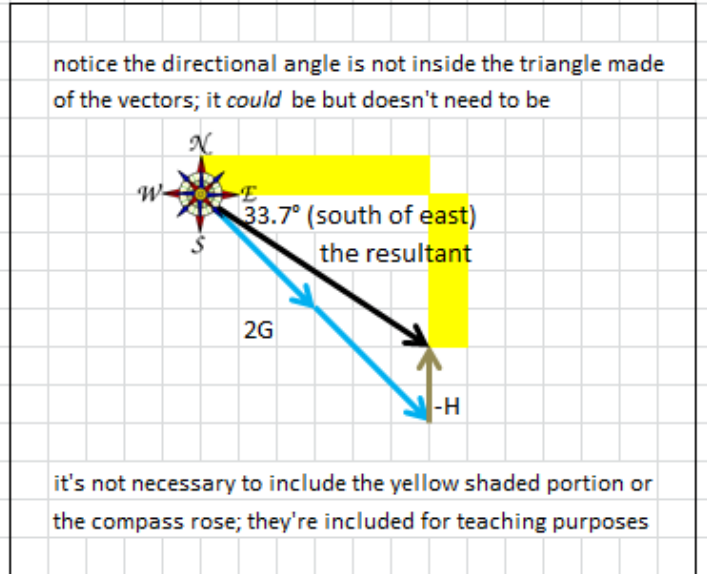
	Work	Magnitude	Direction
1. $A + C$	$(6\mathbf{j}) + (4\mathbf{i} + 1\mathbf{j}) = 4\mathbf{i} + 7\mathbf{j}$	$\sqrt{4^2 + 7^2} = 8.1$	$\tan^{-1}(7/4) = 60.3^\circ$ north of east
2. $2G - H$	$2(3\mathbf{i} - 3\mathbf{j}) - (-2\mathbf{j}) = 6\mathbf{i} - 4\mathbf{j}$	$\sqrt{6^2 + (-4)^2} = 7.2$	$\tan^{-1}(4/6) = 33.7^\circ$ south of east
3. $B + D$			
4. $F + G$			
5. $I + 2H$			
6. $E + D + 3C$			
7. $I + D$			
8. $B - G$			
9. $C - F + D$			
10. $2C - D + H$			
11. $H - H + A$			
12. $I + 2D - 2C$			

Add the vectors geometrically. Label the direction (angle) of the resultant vector.

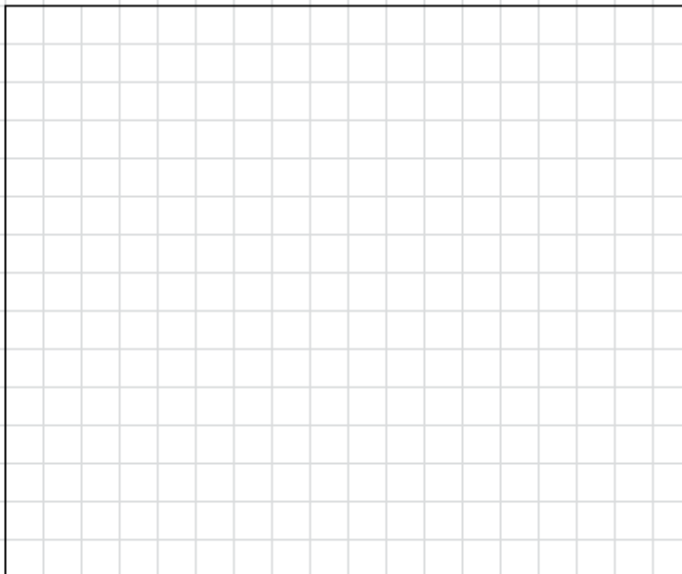
1. $A + C$



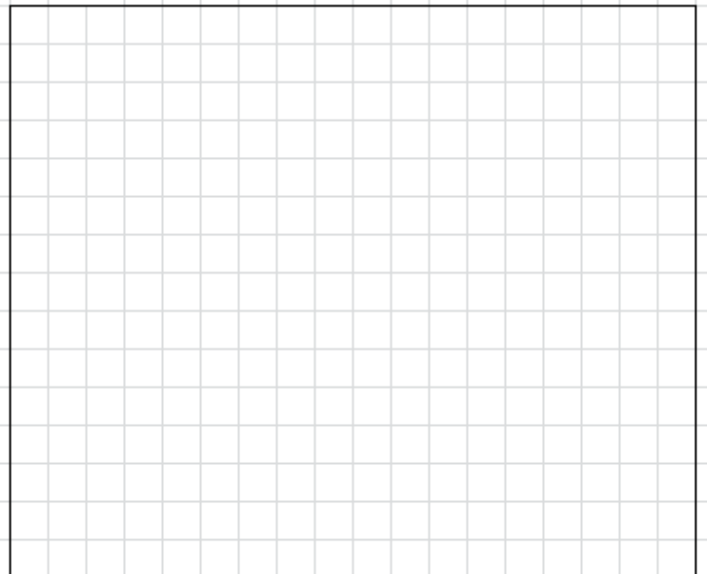
2. $2G - H$



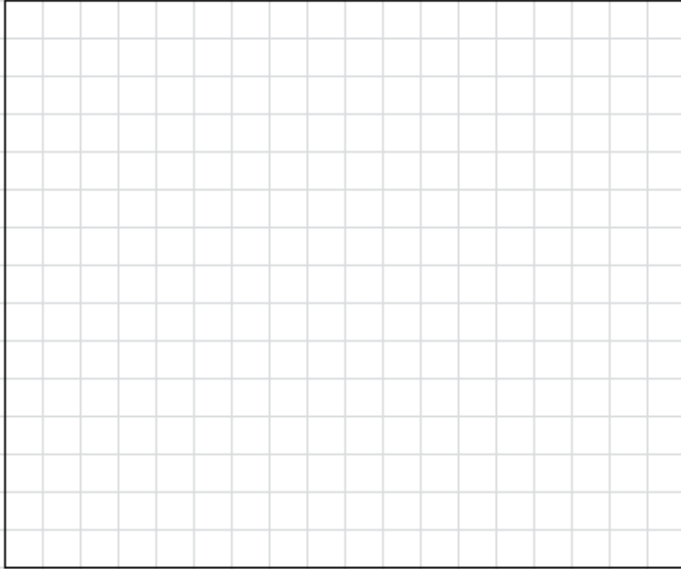
3. $B + D$



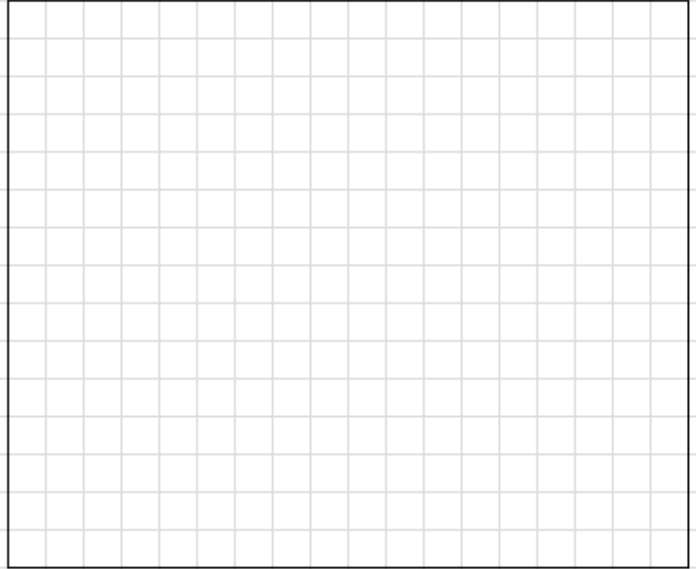
4. $F + G$



5. $I + 2H$



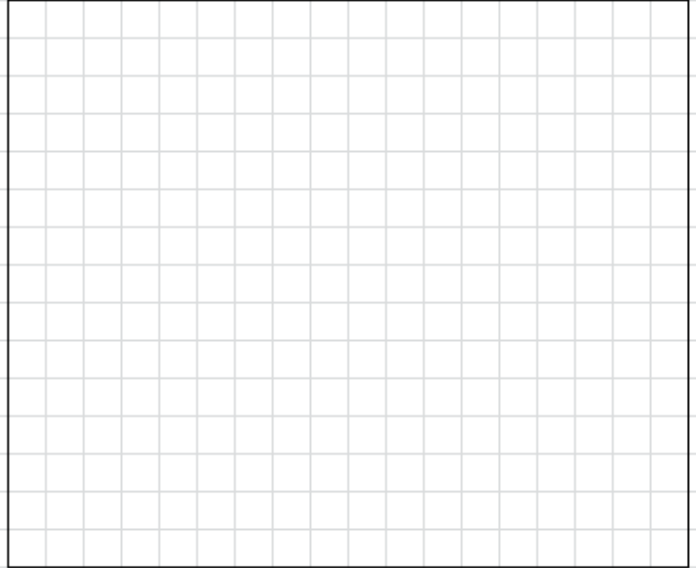
6. $E + D + 3C$



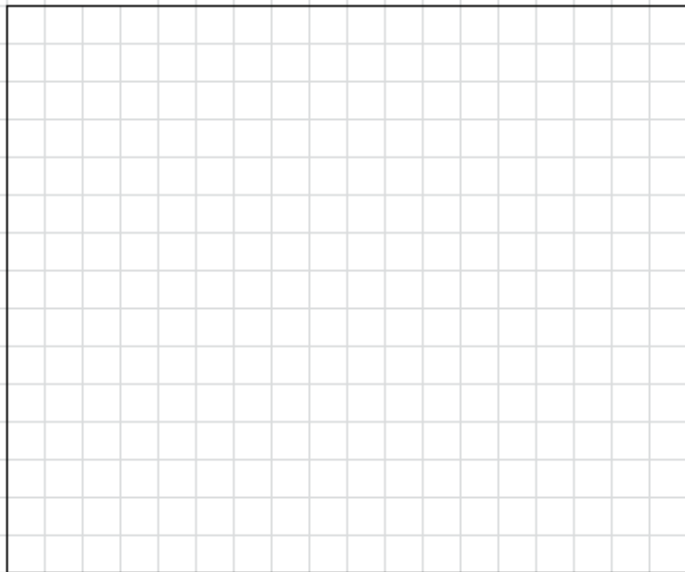
7. $I + D$



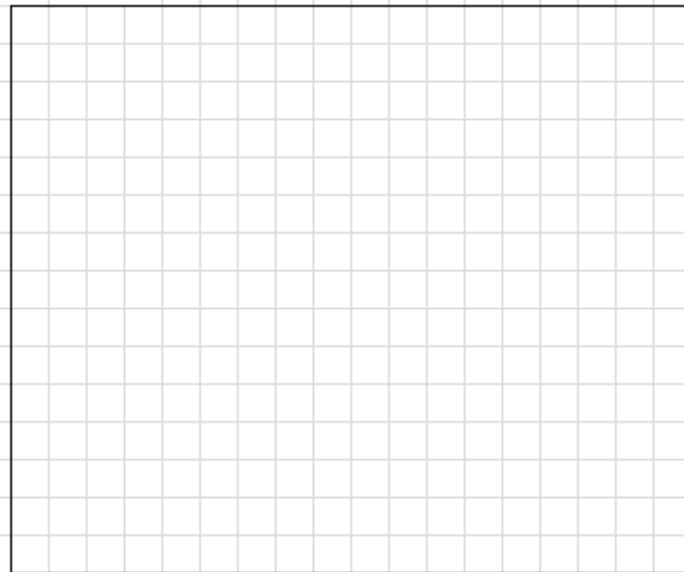
8. $B - G$



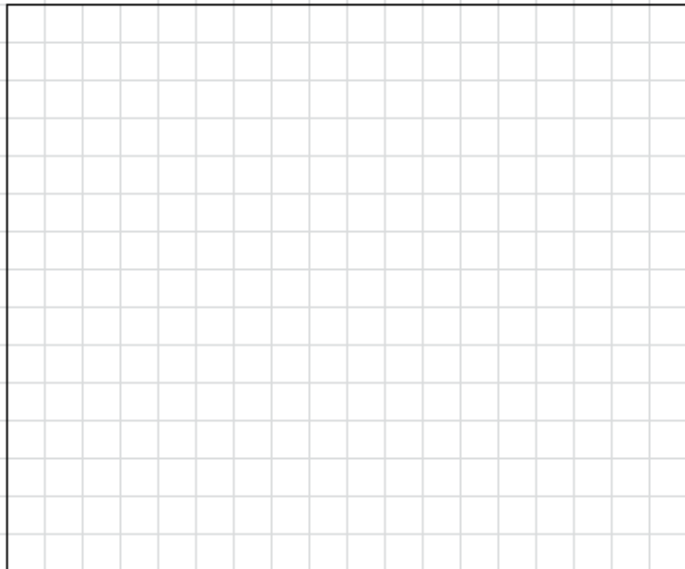
9. $C - F + D$



10. $2C - D + H$



11. $H - H + A$



12. $I + 2D - 2C$

